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United States Patent [19]

Seybold

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[54] **METHOD AND APPARATUS FOR MULTI-MODE HANDWRITTEN INPUT AND HAND DIRECTED CONTROL OF A COMPUTING DEVICE**

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[73] Assignee: **Motorola, Inc.**, Schaumburg, Ill.

[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

[21] Appl. No.: **08/681,687**

[22] Filed: **Jul. 29, 1996**

[51] **Int. Cl.**[7] **G09G 5/00**

[52] **U.S. Cl.** **345/179**; 345/174

[58] **Field of Search** 345/179, 180, 345/181, 182, 173, 156, 168, 145; 341/22; 178/18, 19

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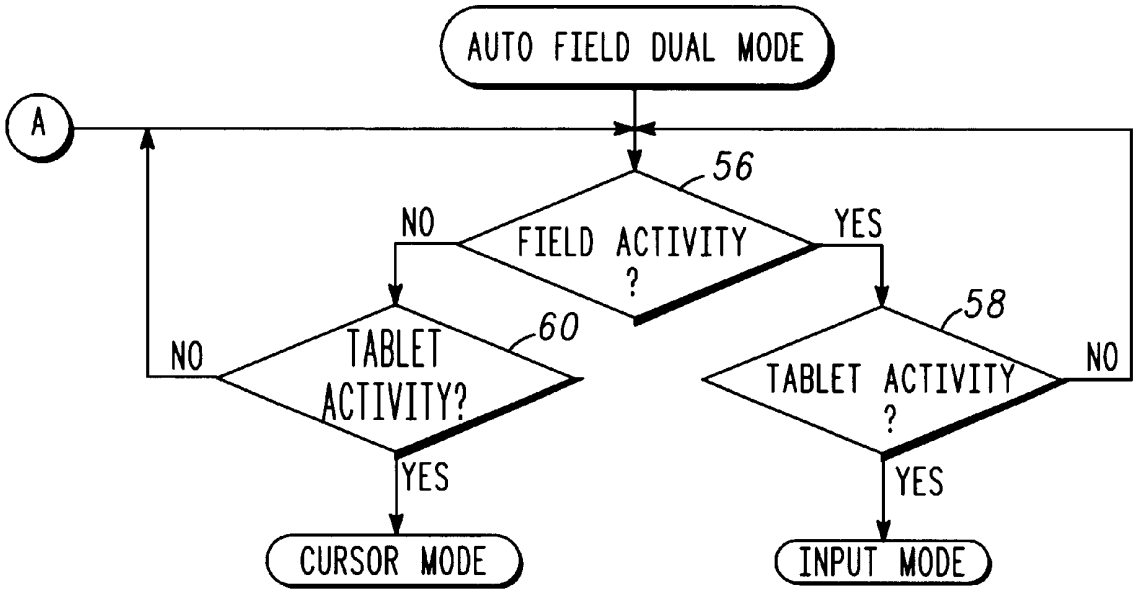
Primary Examiner—Dennis-Doon Chow

Attorney, Agent, or Firm—Terri S. Hughes; Romi N. Bose

[57] **ABSTRACT**

Coordinates from a digitizing tablet are processed in two modes. In a first mode (denoted the Cursor Mode for convenience) the digitizing tablet operates similar to the well know computer "mouse" allowing the user to move the cursor around the display screen to select buttons and controls by mapping the coordinates to the display area of the monitor. In a second mode (denoted as the Input Mode for convenience), the digitizing tablet coordinates (especially generated by the motion of a pen) are mapped to an input area within a graphical interface of a computer program designed to accept handwritten input. Selection between the first mode and the second mode is made manually by switch input or automatically via analysis of the coordinates or by differentiating field sensing digitization from touch sensitive digitization.

30 Claims, 7 Drawing Sheets



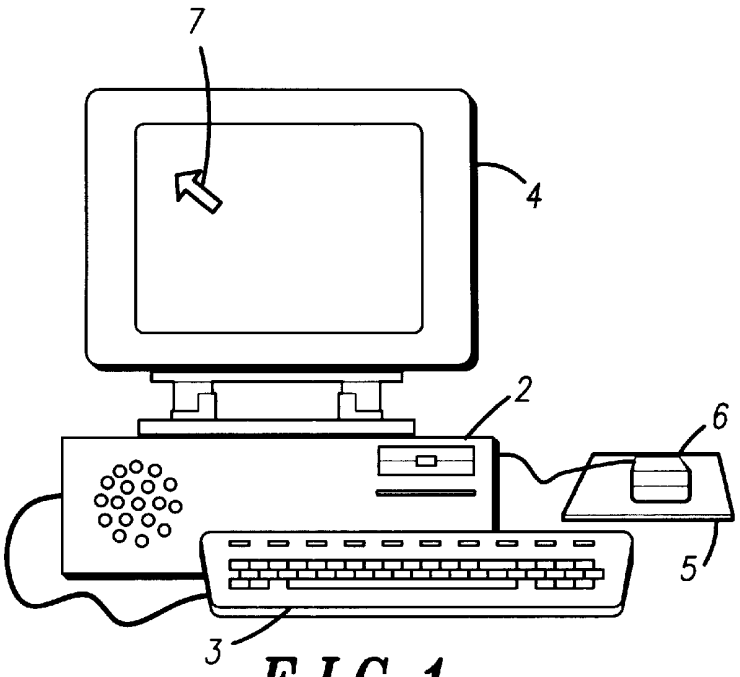


FIG.1

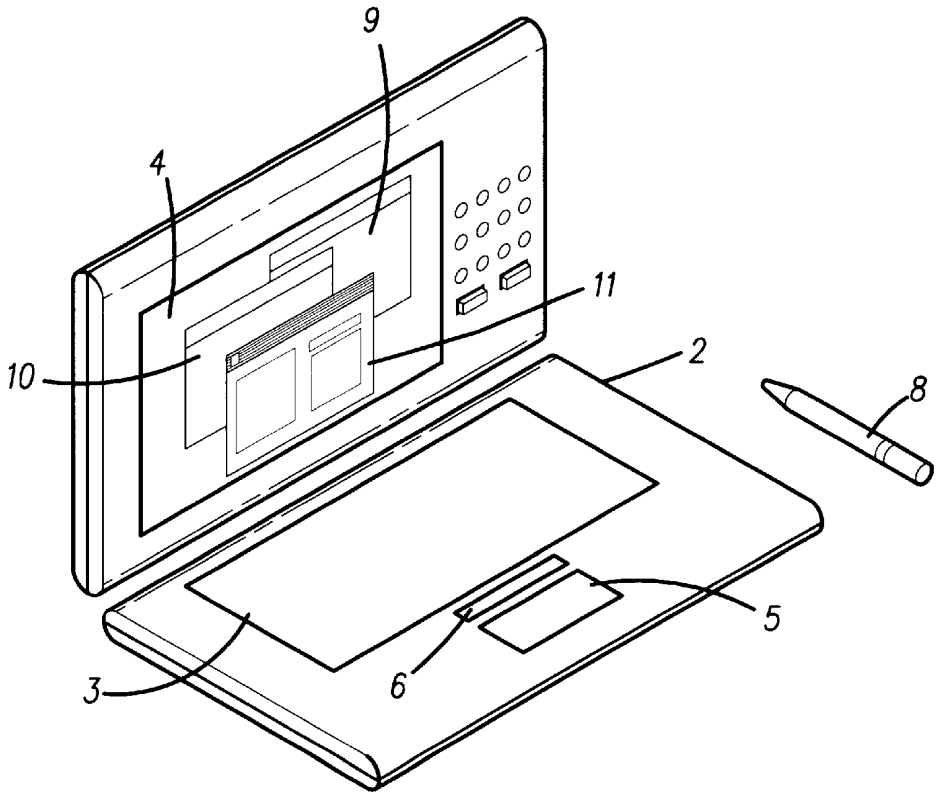


FIG.2

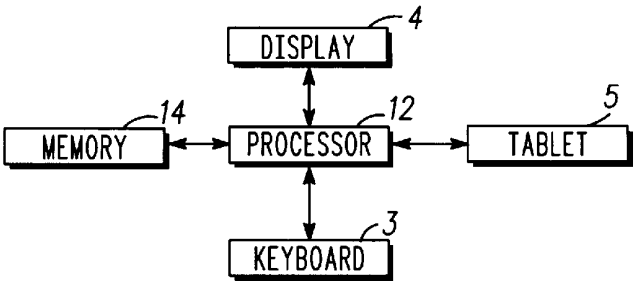


FIG.3

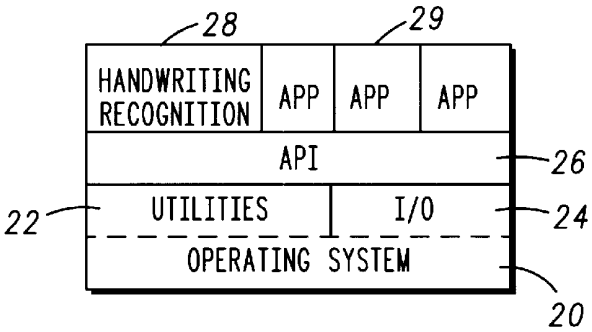


FIG.4

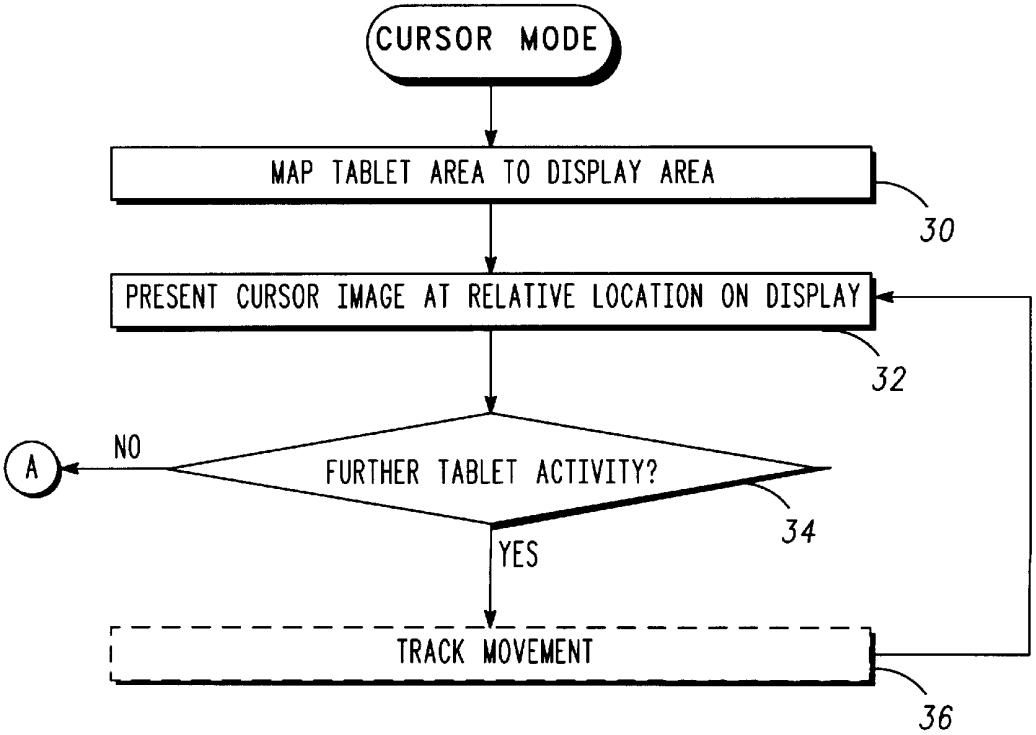


FIG.5

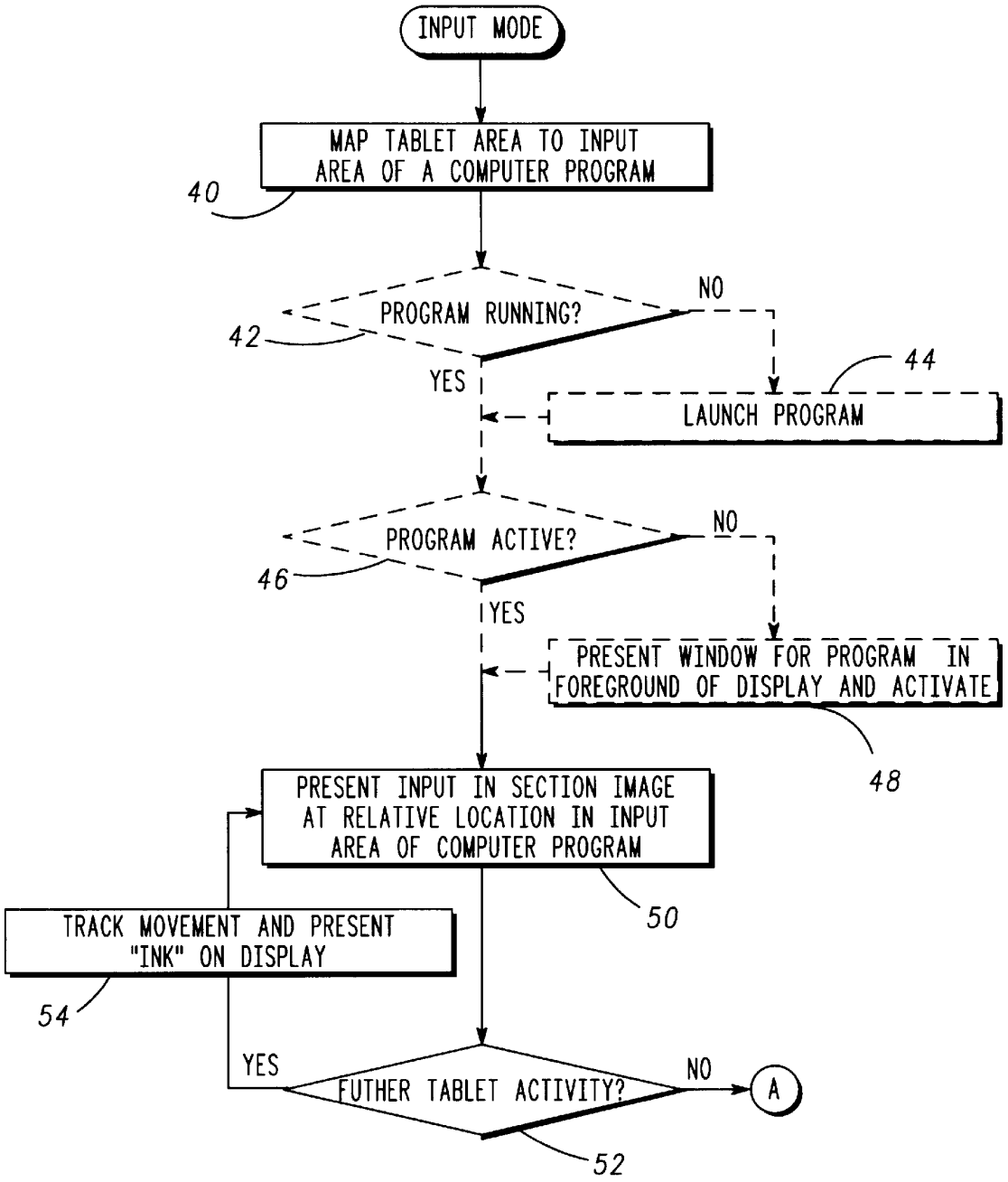


FIG.6

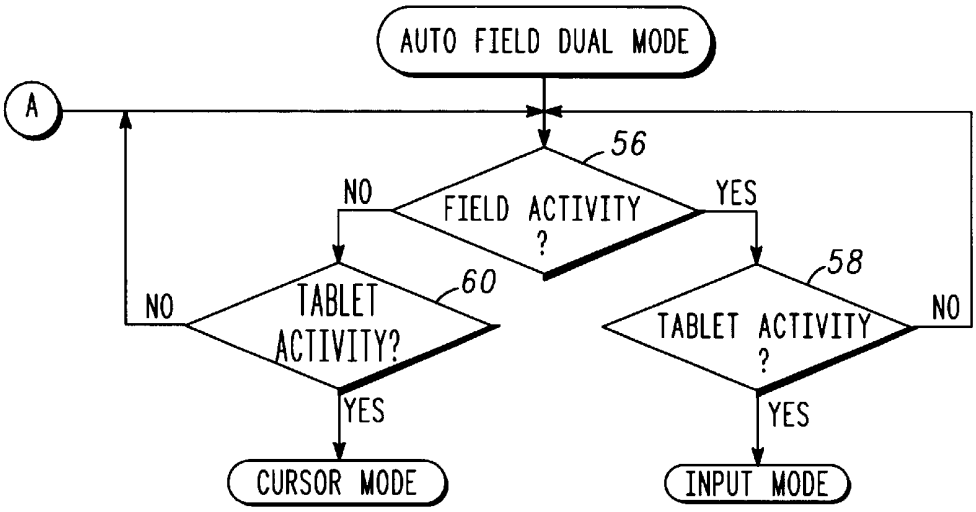


FIG.7

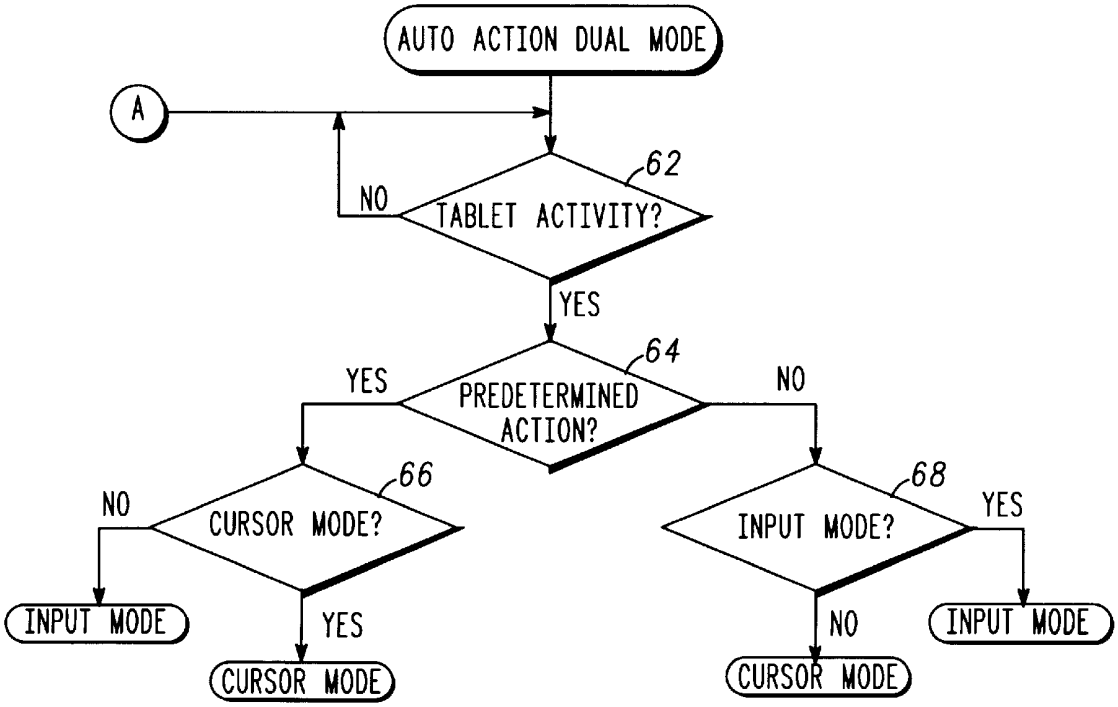


FIG.8

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